

## Title (en)

PROCESS AND DEVICE FOR THE ELECTROMAGNETIC STIRRING OF CONTINUOUSLY CAST SLABS, ESPECIALLY OF STEEL

## Publication

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## Application

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## Priority

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## Abstract (en)

[origin: ES8501266A1] In a continuous-casting method molten steel is continuously introduced into a continuous-casting mold to form therein a strand having a free surface in the mold, a pair of relatively wide faces, and a pair of relatively narrow faces. The mold and the steel therein are continuously cooled to externally solidify the molten-steel strand while leaving same internally molten and the externally solid and internally molten strand is continuously withdrawn from the lower end of the mold. The core of the strand solidifies increasingly as it moves from the mold and terminates downstream of the mold at a pool bottom. At each of a plurality of locations spaced apart about 1 m to 2 m longitudinally along the strand between the mold and the pool bottom a respective magnetic field is formed with the fields passing through the strand from between about 3 m to 7 m beneath the free surface to about 2 m to 6 m from the pool bottom. These fields are displaced transversely of and generally parallel to the side faces of the strand with each field moving opposite to the adjacent field or fields so as to magnetically transversely and oppositely displace respective portions of the molten core of the strand.

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